identifying fact nets defining evolving probable user interests; and

pushing selected facts from the identified fact nets to the system client.

52 7. (New) The method as set forth in Claim 6, including the steps of deriving new facts from the facts within the fact nets, and incorporating the new facts into the fact nets.

53 8. (New) The method as set forth in Claim 6, including the step of repeating all steps until stopped.

54 9. (New) The method as set forth in Claim 8, wherein the repeating step includes executing the previous steps concurrently as independent threads.

55 10. (New) The method as set forth in Claim 9, including the steps of defining a no-longer-valid fact, and pruning no-longer-valid facts from the fact nets.

56 11. (New) The method as set forth in Claim 7, including a step of triggering the deriving and the pushing steps upon the formation of the fact nets.

57 12. (New) The method as set forth in Claim 11, wherein the triggering occurs upon the derivation of new facts, thereby defining an iterative process of reevaluation and reporting.

58 13. (New) The method as set forth in Claim 12, including a step of deriving every possible fact that can be derived each time a new fact is added.

59 14. (New) The method as set forth in Claim 6, wherein the client is an application program that displays facts for user viewing.

60 15. (New) The method as set forth in Claim 6, wherein the client is an application program that archives facts for later use.

61 16. (New) A system for monitoring events in an environment, for making inferences about the monitored events, and for reporting selected inferences to a client, the system comprising:

at least one observer agent for monitoring a selected event of an environment, and for creating a primitive fact which incorporates a status of the monitored event;

a dynamic user model for storing created facts, the stored facts being accessible by the agents;

at least one reporter agent for examining created facts, for defining and identifying reportable facts, and for delivering a copy of the reportable facts to a receiving client; and

the agents, the dynamic user model, and the client being implemented within a single platform.

Rtcl. 16 62 17. (New) The system as set forth in Claim 16, wherein the at least one observer agent, and the at least one reporter agent each defines an independent, concurrent programming thread.

63 18. (New) The system as set forth in Claim 17, wherein the at least one reporter thread is triggered by the creation of each new primitive fact, whereby delivery of reportable facts to a client is triggered by occurrence of monitored events.

64 19. (New) A method for creating and using a dynamic user model to push information to a client in an information processing system, the method comprising the steps of:

providing a single platform for the practice of the method;

building and maintaining a dynamic user model within the platform;

implementing a receiving client within the platform; and

using the dynamic user model for pushing information to the receiving client by performing the following steps,

examining the contents of the dynamic user model to identify fact nets defining evolving probable user interests, and

pushing selected facts from the identified fact nets to the receiving client.

65 20. (New) The method as set forth in Claim 19, further including the step of triggering the information pushing on changes in the dynamic user model.

66 21. (New) The method as set forth in Claim 19, wherein the dynamic user model includes information defined by a current web page being viewed by a user of the information processing system, and wherein the web page information in the dynamic user model is used to access and push news stories related to the web page, and to access and push stock prices related to the web page.

67 22. (New) The method as set forth in Claim 19, wherein the dynamic user model includes information defined by keystrokes made by a user of the information processing system, and wherein the keystroke information further defines correct and incorrect user keystrokes, and the keystroke information is used to construct typing exercises aimed at improving user typing skill, and wherein the exercises are pushed to the user.

68 23. (New) The method as set forth in Claim 19, wherein the dynamic user model includes information derived from user interactions with an application program of the information processing system, and the application program interaction information is used to access additional information about the application program via a network, such as one of program updates and related and competing programs.

69 24. (New) A system for pushing information to a client in an information processing system, the system comprising:

means for gathering facts concerning user activity and for forming the gathered facts into fact nets;

means for identifying fact nets defining evolving probable user interests;

means for pushing selected facts from the identified fact nets to a system client; and

single platform means implementing the system and the client.

Rule 126 70 25. (New) The system as set forth in Claim 24, including means for deriving new facts from the facts within the fact nets, and for incorporating the new facts into the fact nets.

71 26. (New) The system as set forth in Claim 24, including means for continuing until stopped.

72 27. (New) The system as set forth in Claim 26, wherein said continuing means further includes each of said previous means defining concurrent, independent program threads.

73 28. (New) The system as set forth in Claim 27, further including means for defining a no-longer-valid fact, and for pruning no-longer-valid facts from the fact nets.

74 29. (New) The system as set forth in Claim 25, including means for triggering the deriving means and the pushing means upon the formation of the fact nets.

75 30. (New) The system as set forth in Claim 29, wherein the triggering occurs upon the derivation of new facts, thereby defining an iterative means of reevaluation and reporting.

76 31. (New) The system as set forth in Claim 30, including means for deriving every possible fact that can be derived each time a new fact is added.

77 32. (New) The system as set forth in Claim 24, wherein the client is an application program that displays facts for user viewing.

78 33. (New) The system as set forth in Claim 24, wherein the client is an application program that archives facts for later use.